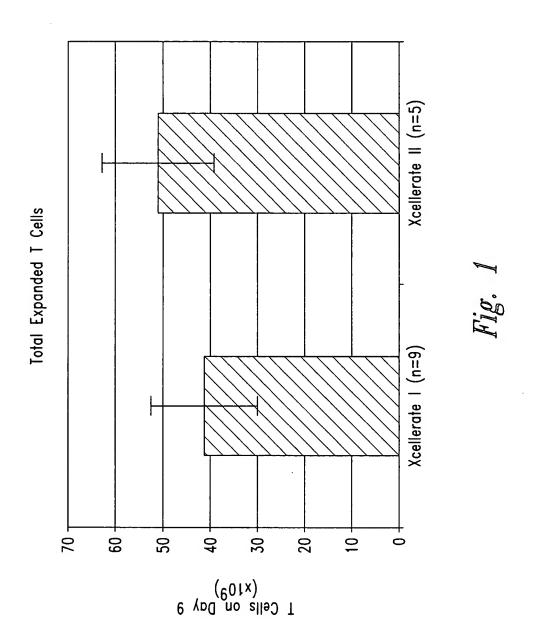
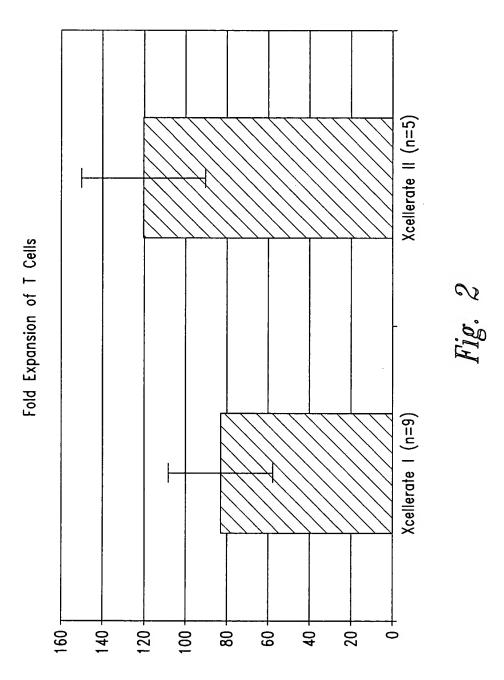
Title: ACTIVATION AND EXPANSION OF CELLS





Title: ACTIVATION AND EXPANSION OF CELLS

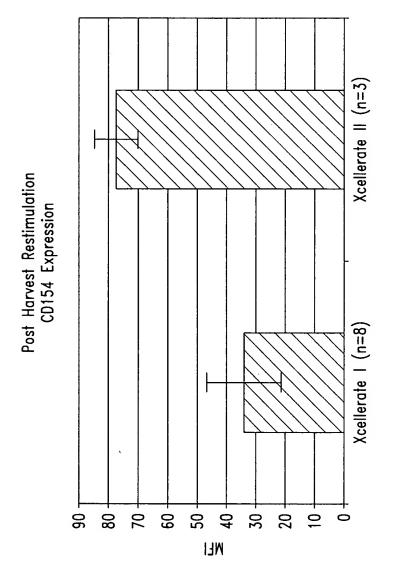
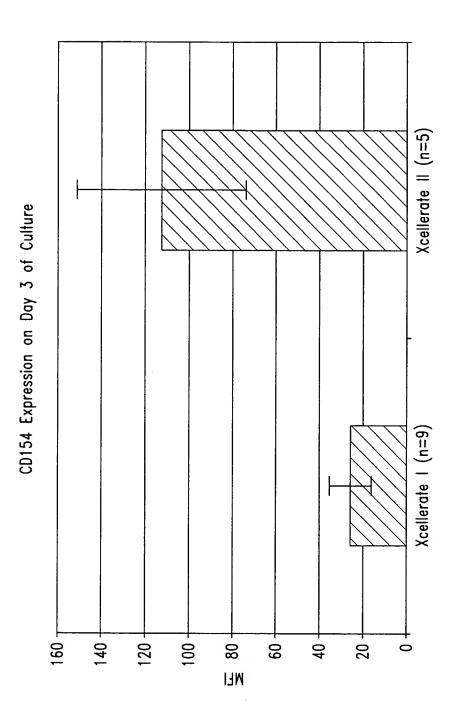


Fig. 3



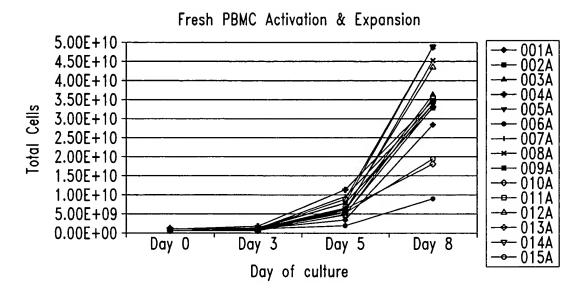


Fig. 5A

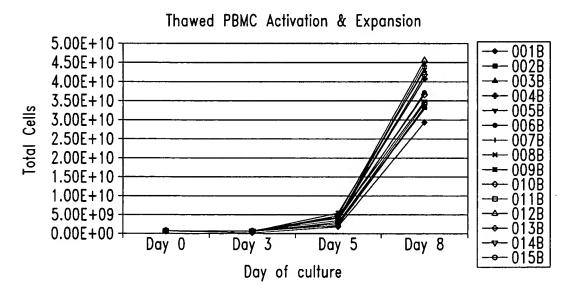


Fig. 5B

Inventor(s): Ronald Berenson et al. Expre

Express Mail No. EV336592935US

CD25 Expression CD4+ T cells (MFI Units)

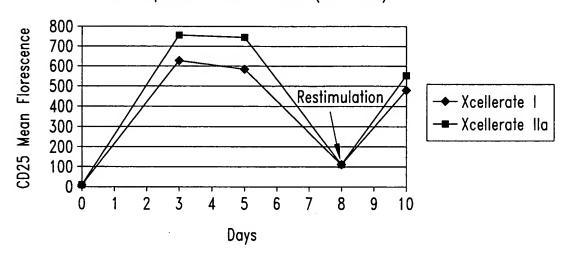


Fig. 6A

CD25 Expression CD8+ T cells (MFI Units)

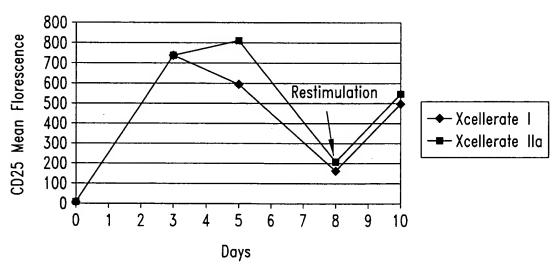
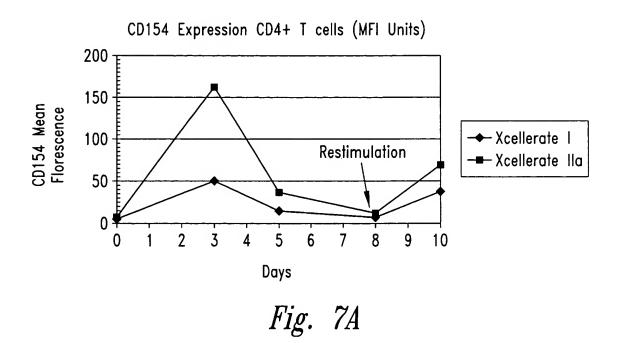
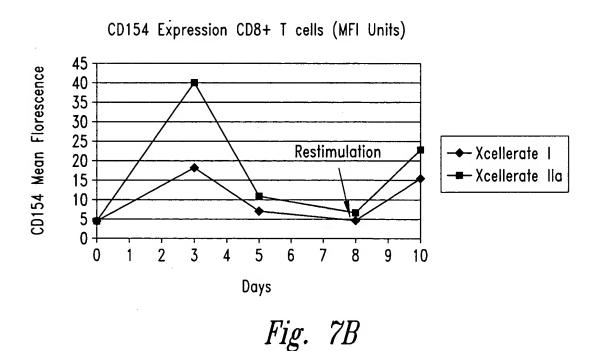


Fig. 6B

Inventor(s): Ronald Berenson et al.

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Inventor(s): Ronald Berenson et al. Express Mail No. EV336592935US

Cell Growth Over Time -- Cultures without IL2 NA-023 PC014

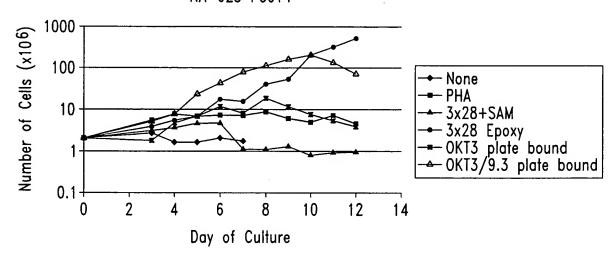


Fig. 8A

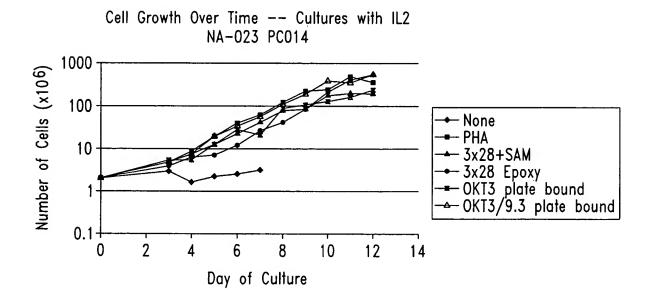
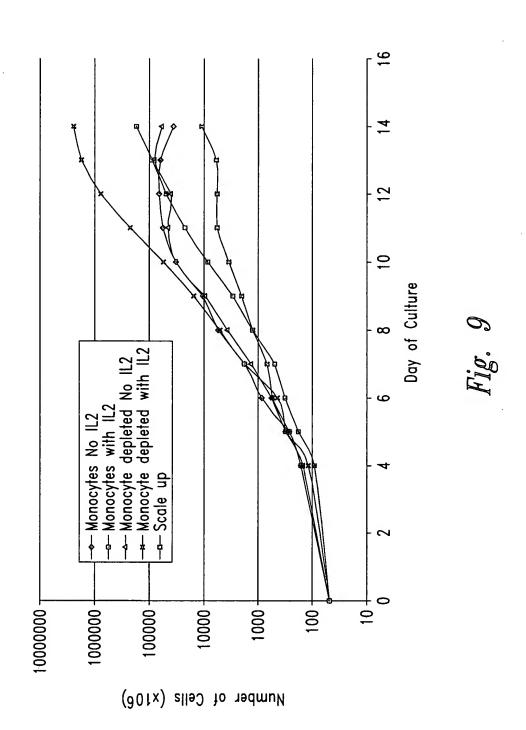
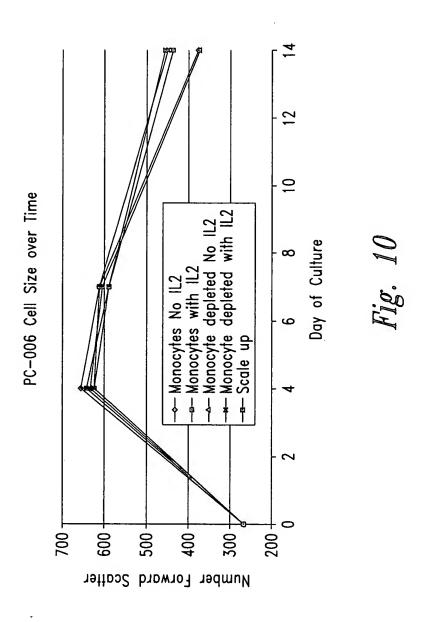


Fig. 8B





Title: ACTIVATION AND EXPANSION OF CELLS

PC006 -- CD25 Expression Over Time

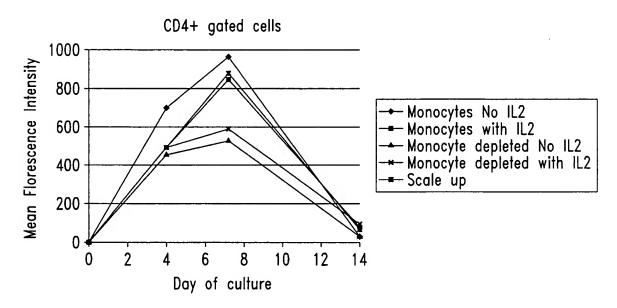


Fig. 11A

PC006 -- CD25 Expression Over Time

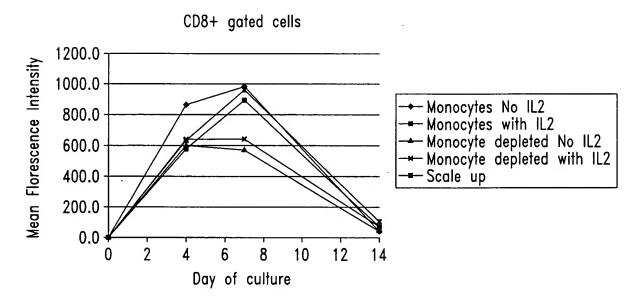
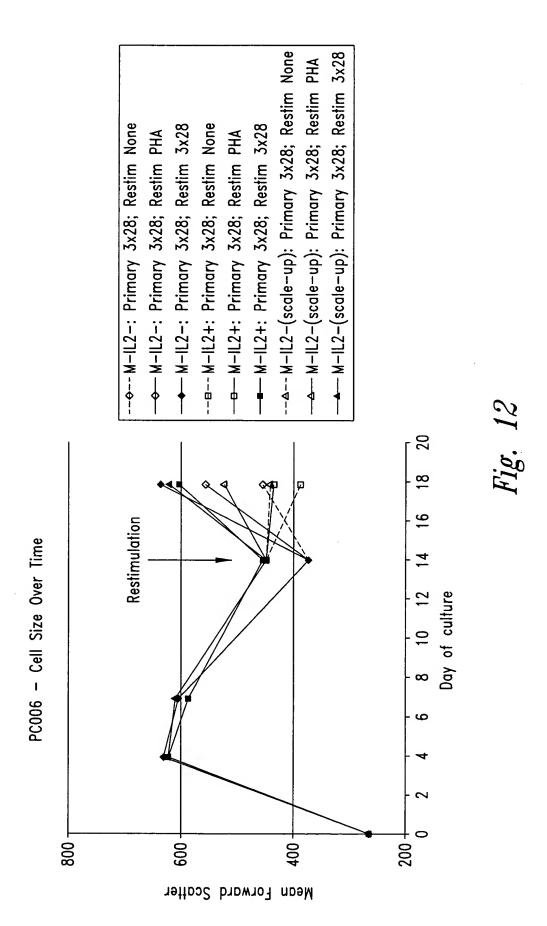
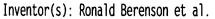
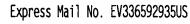
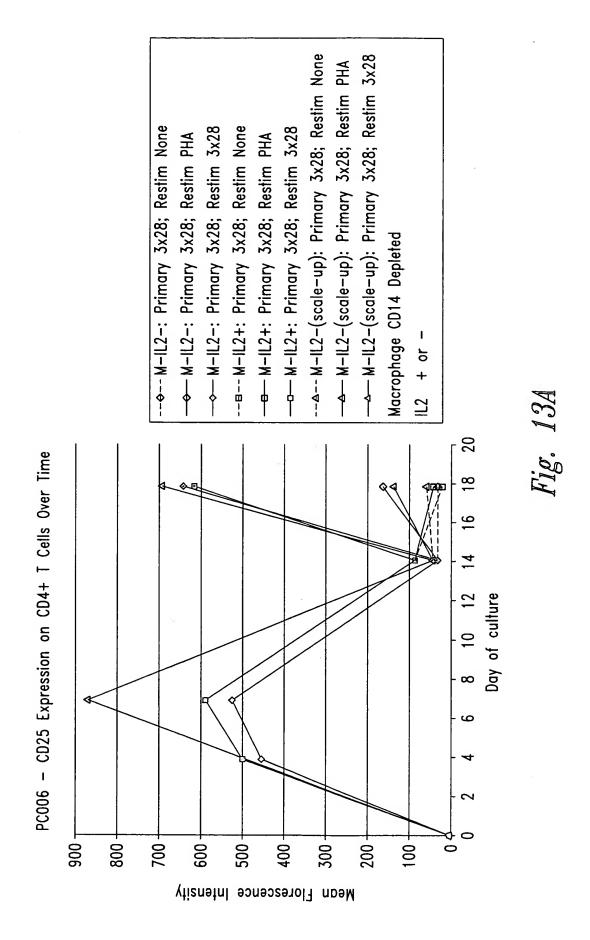


Fig. 11B

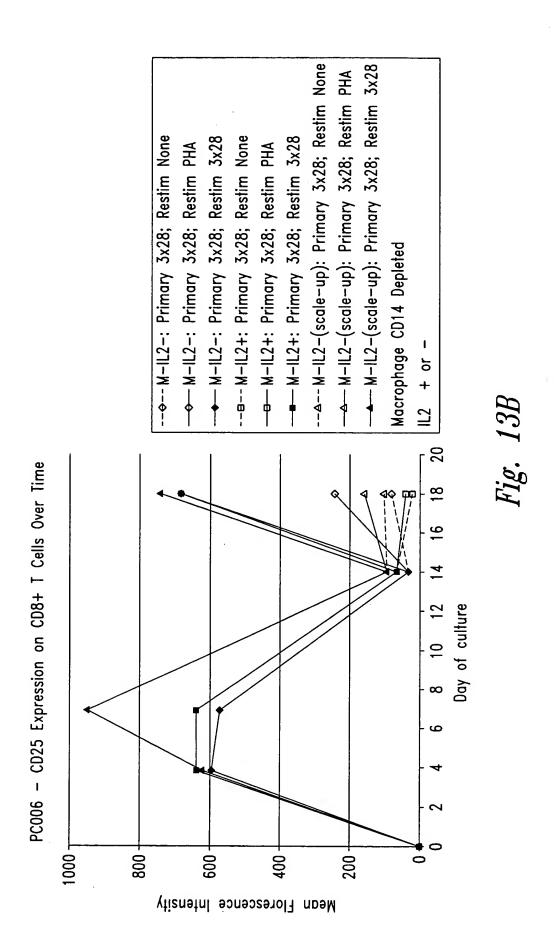








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Inventor(s): Ronald Berenson et al.

Express Mail No. EV336592935US

Docket No. 980034.417C5

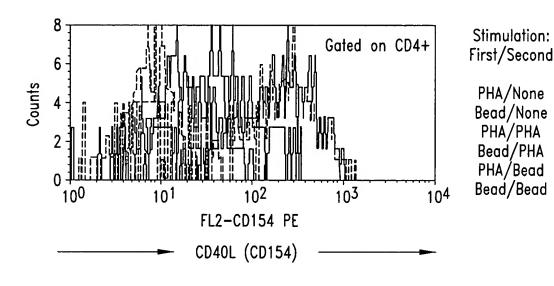


Fig. 14A

Stimulation: Gated on CD8+ 60 First/Second 50 40 PHA/None 30 Bead/None PHA/PHA 20 Bead/PHA PHA/Bead 10 0 Bead/Bead 101 103 100 102 104 FL2-CD154 PE CD40L (CD154)

Fig. 14B

Title: ACTIVATION AND EXPANSION OF CELLS

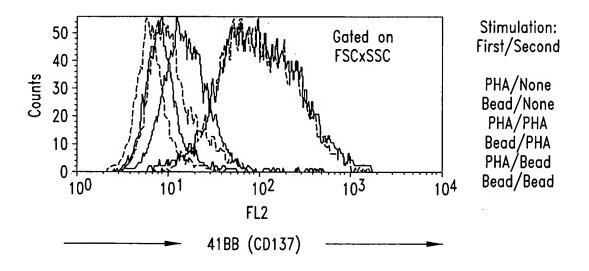


Fig. 15

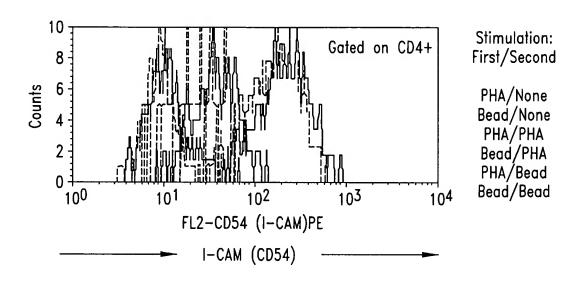


Fig. 16A

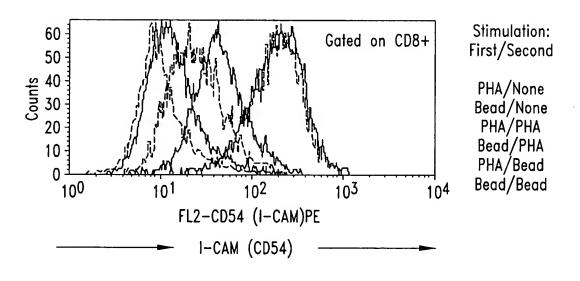
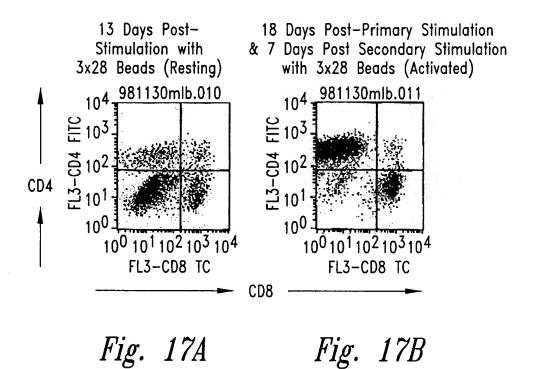


Fig. 16B



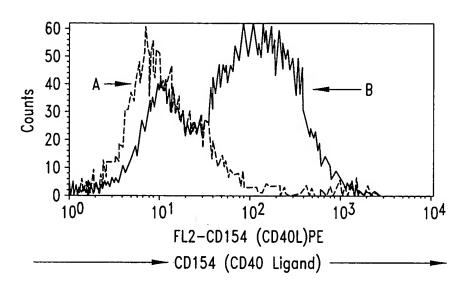


Fig. 17C

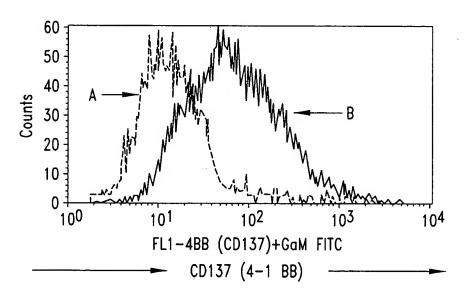


Fig. 17D

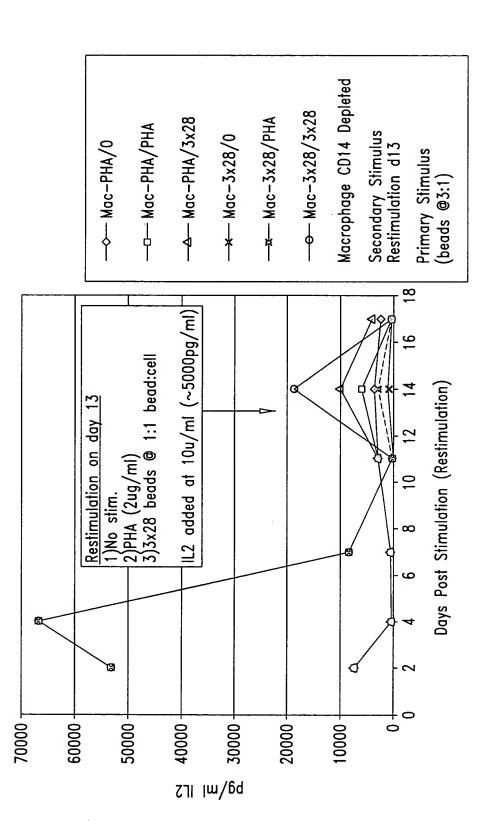


Fig. 184

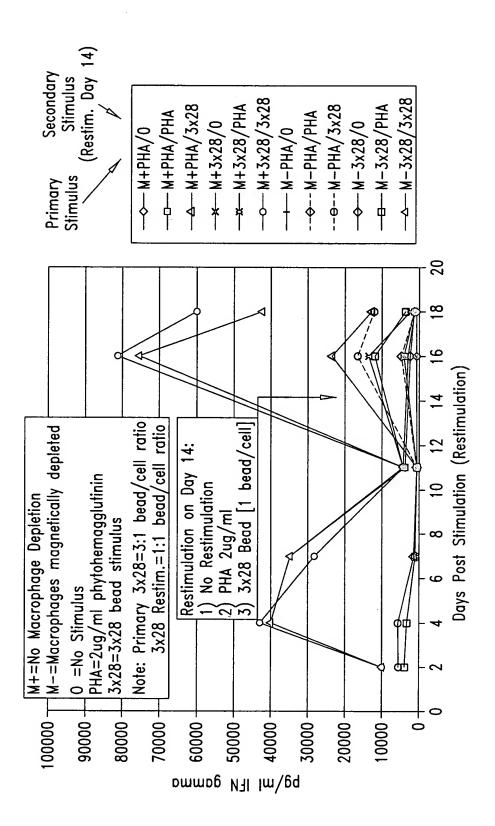


Fig. 18B

PC003: Secreted IL4 Kinetics Following Primary Stimulation and Restimulation

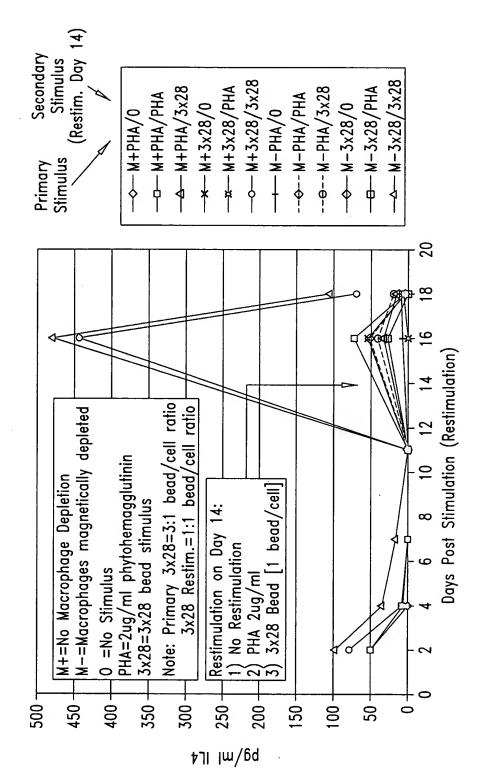


Fig. 18C

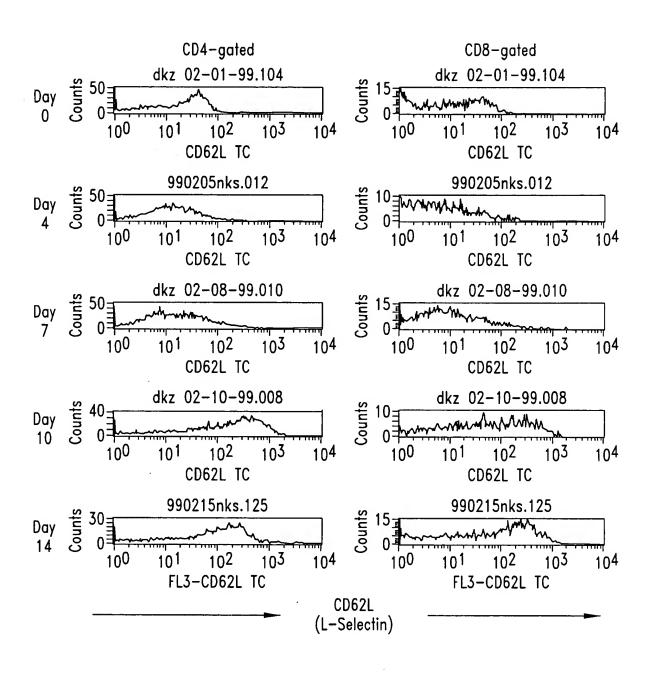
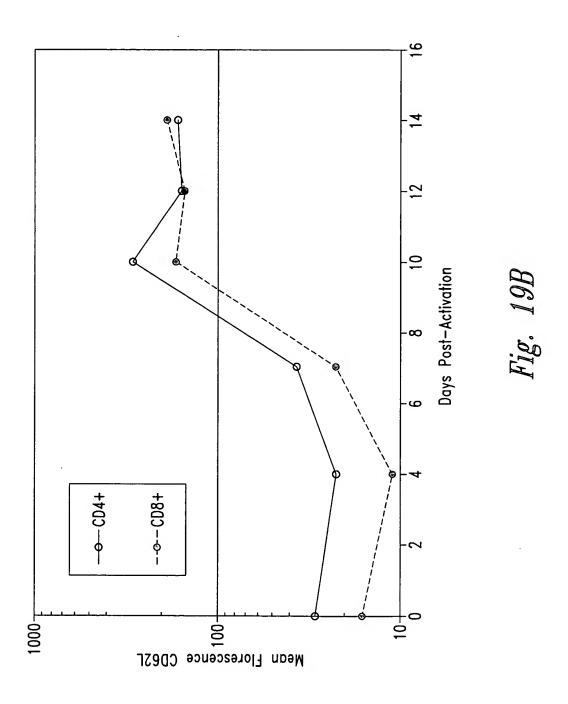


Fig. 19A



0

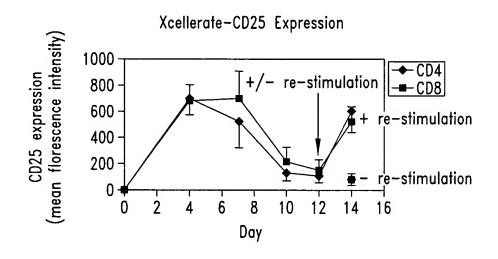
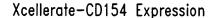


Fig. 21A



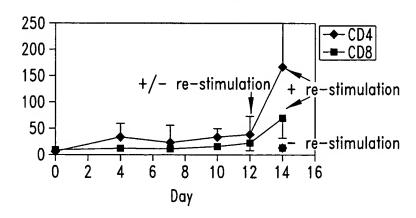


Fig. 21B

Inventor(s): Ronald Berenson et al. Express Mail No. EV336592935US

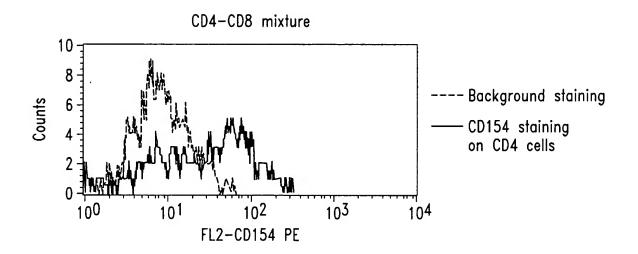


Fig. 22A

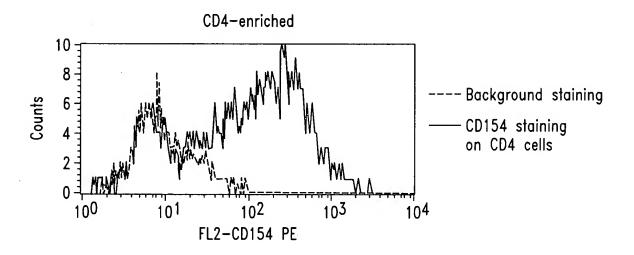


Fig. 22B

Docket No. 980034.417C5

$Xcellerate-TNF-\alpha$ Production

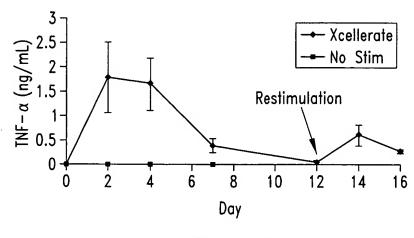


Fig. 23A

Xcellerate-IFN- γ Production

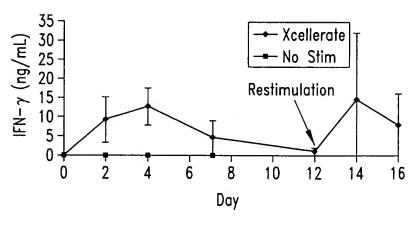


Fig. 23B

Inventor(s): Ronald Berenson et al. Express Mail No. EV336592935US

Xcellerate-IL-4 Production

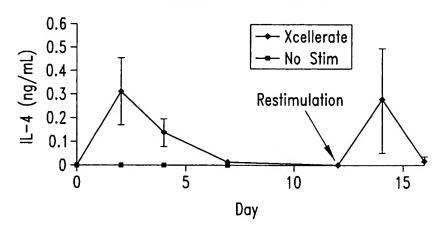


Fig. 24A

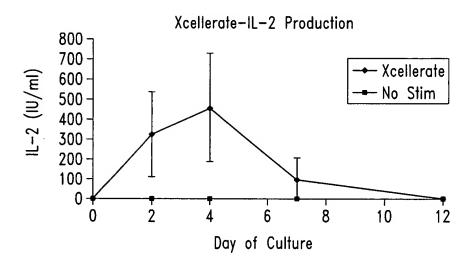


Fig. 24B

Xcellerate-Increased T Cell Size

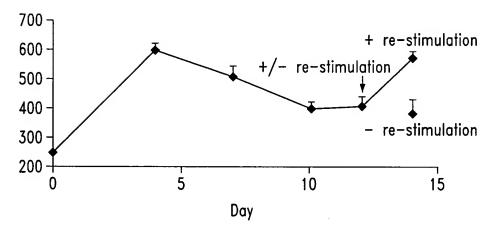
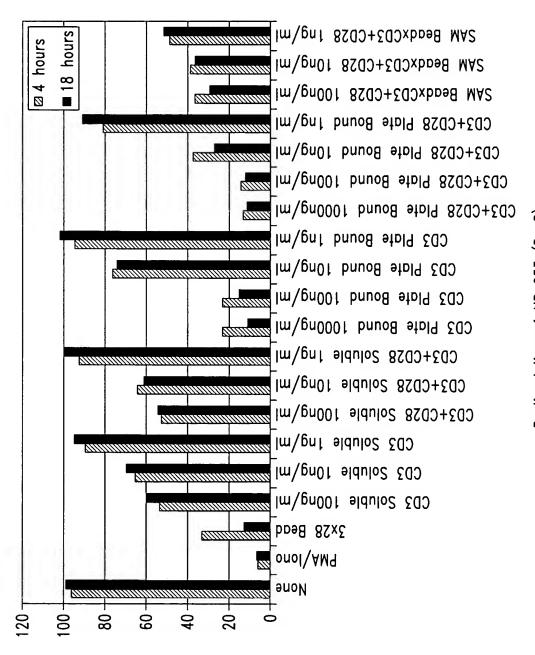
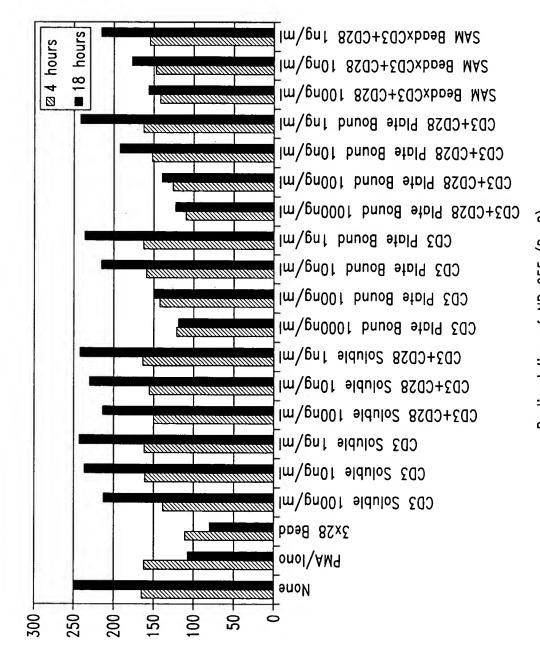


Fig. 25

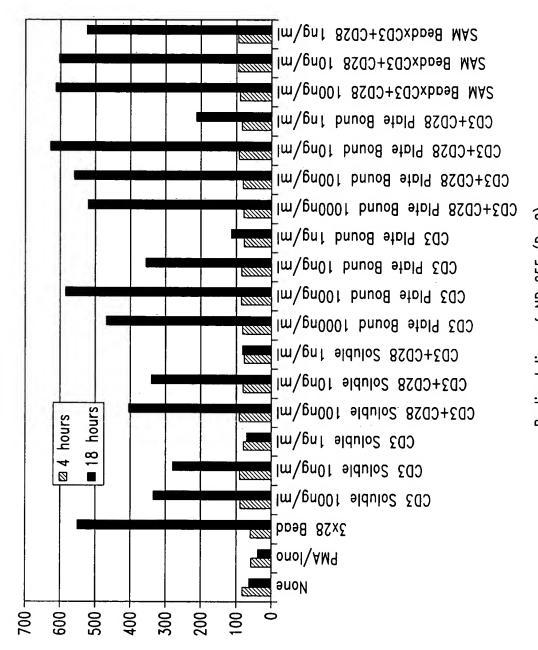
Express Mail No. EV336592935US Inventor(s): Ronald Berenson et al. Docket No. 980034.417C5



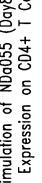
Restimulation of NDa055 (Day8): CD62L (L-Selectin) Expression on CD4+

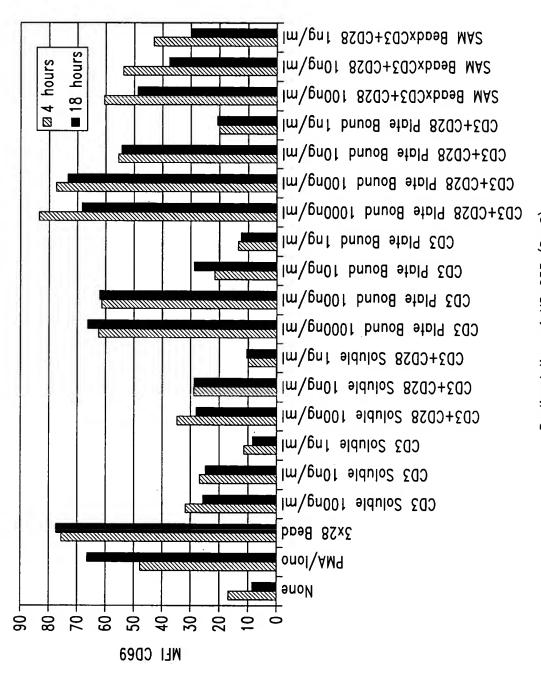


Restimulation of NDa055 (Day8): CD49d (VLA4) Expression on CD4+ T



Restimulation of NDa055 (Day8): CD25 (IL2-R) Expression on CD4+ T C

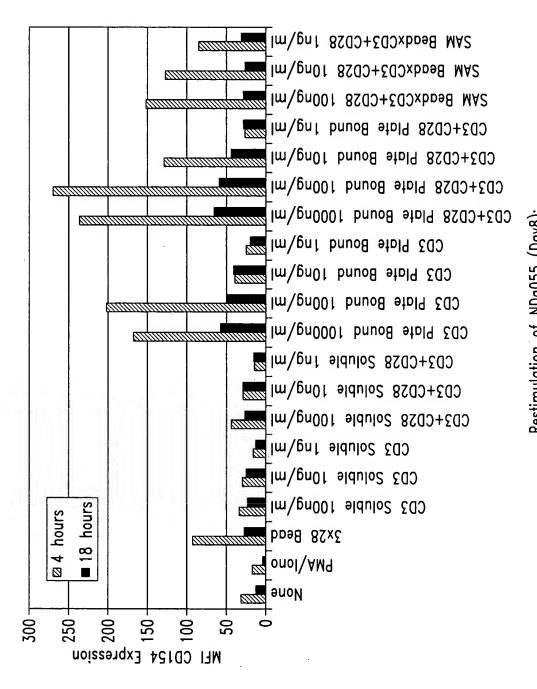




Restimulation of NDa055 CD69 Expression on CD4+

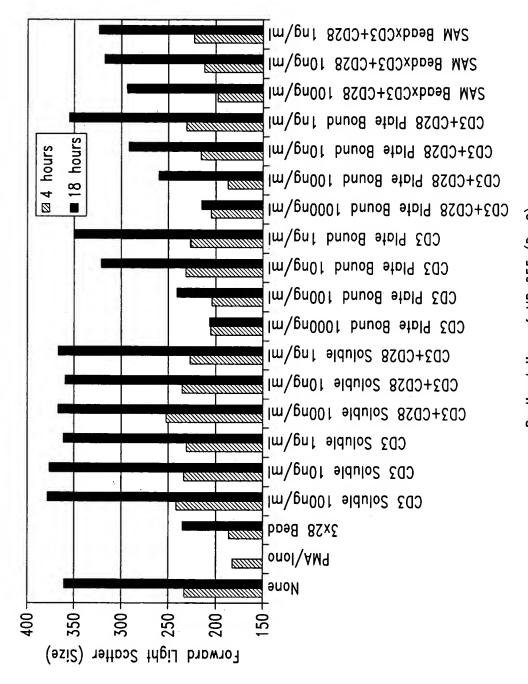
Inventor(s): Ronald Berenson et al.

Express Mail No. EV336592935US Docket No. 980034.417C5

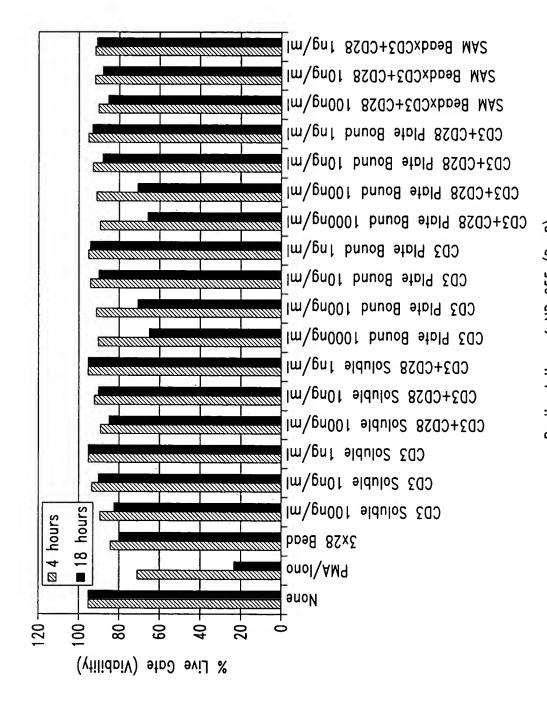


Restimulation of NDa055 (Day8): CD154 (CD40L) Expression on CD4+ T

Inventor(s): Ronald Berenson et al. Express Mail No. EV336592935US



Restimulation of NDa055 (Forward Light Scatter (\$



Restimulation of NDa055 (Day8): Live Gate (Viability)

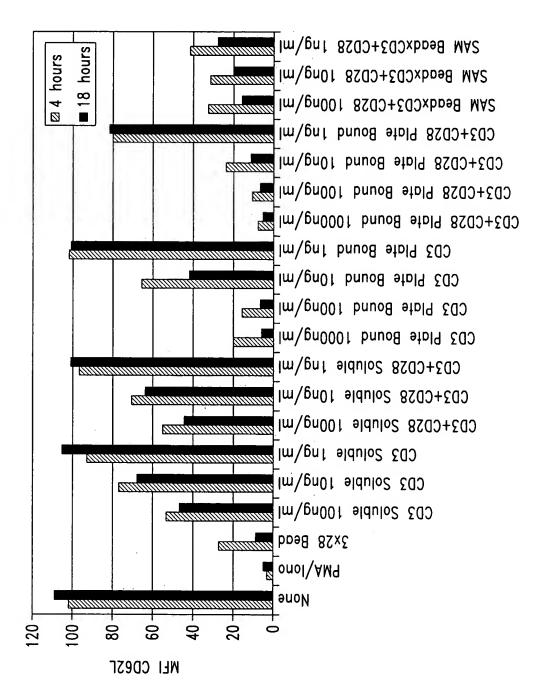


Fig. 26H

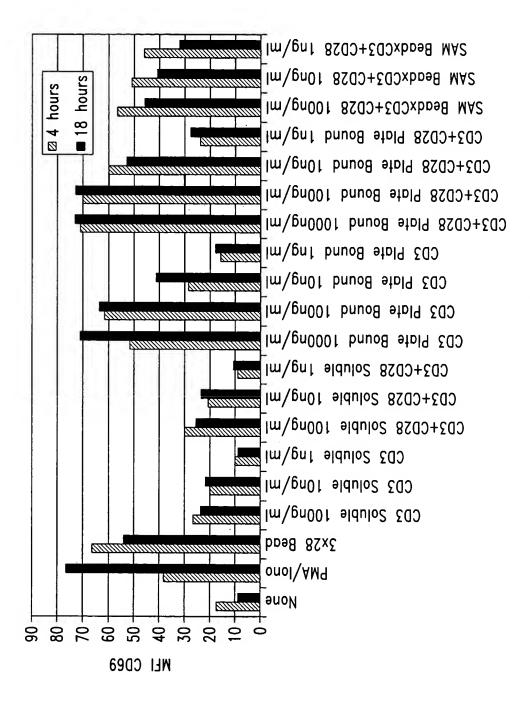


Fig. 26I

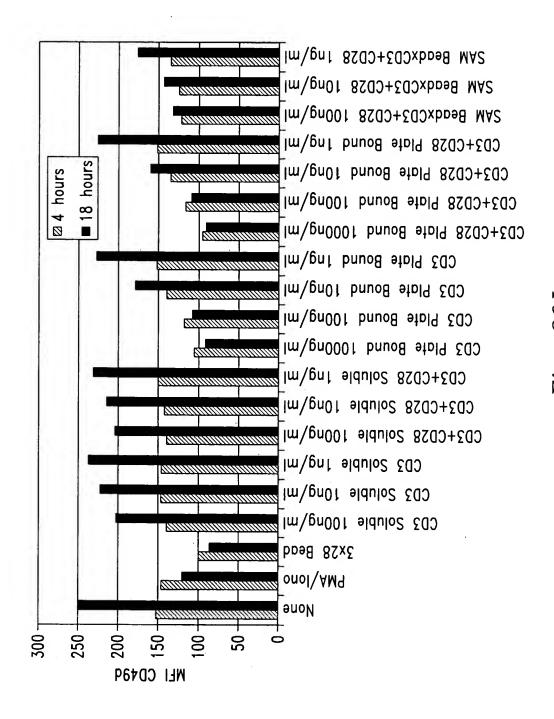


Fig. 26J

Title: ACTIVATION AND EXPANSION OF CELLS

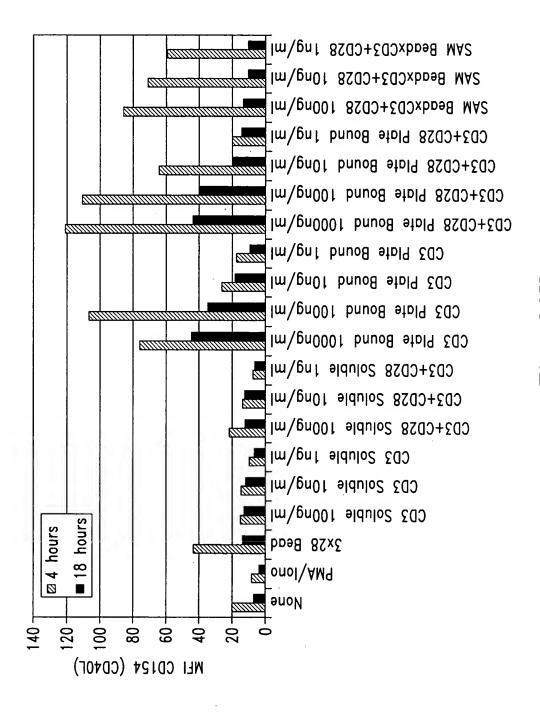


Fig. 26K

Title: ACTIVATION AND EXPANSION OF CELLS

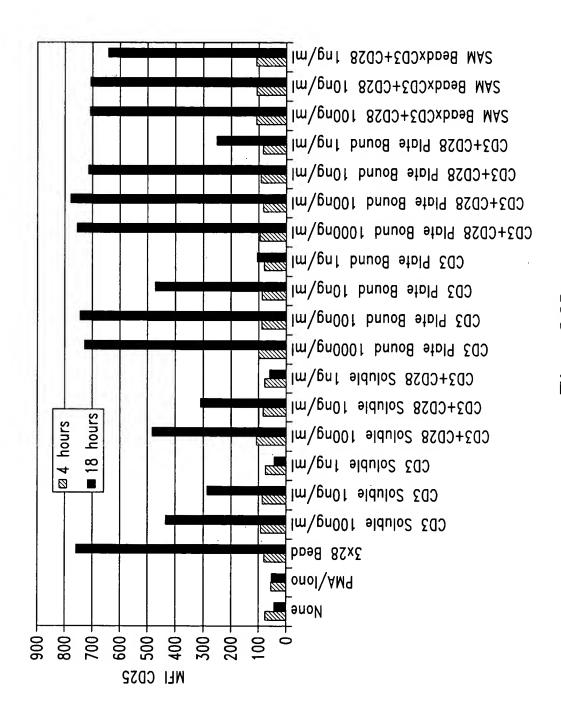
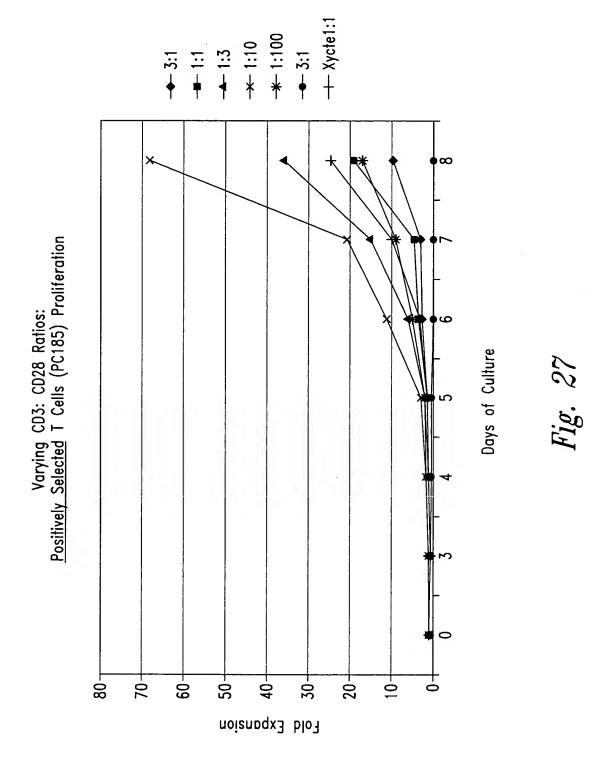


Fig. 26L



Inventor(s): Ronald Berenson et al.

Express Mail No. EV336592935US

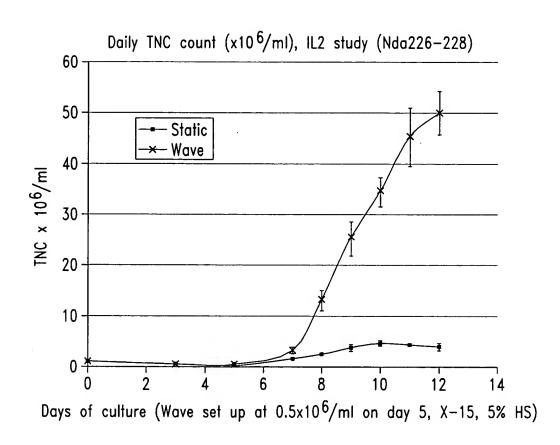
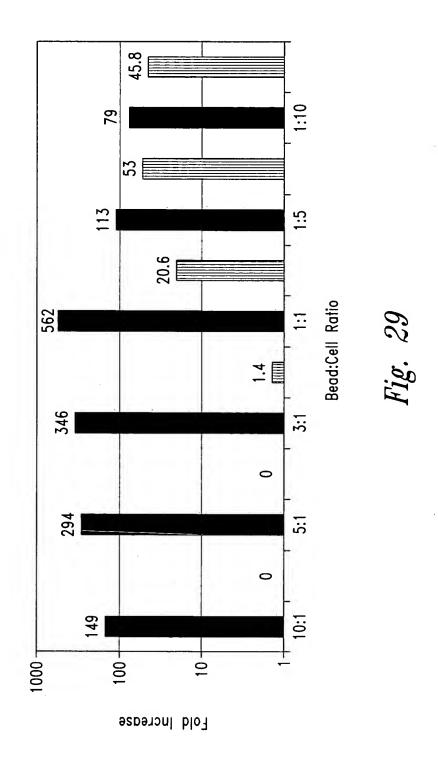


Fig. 28



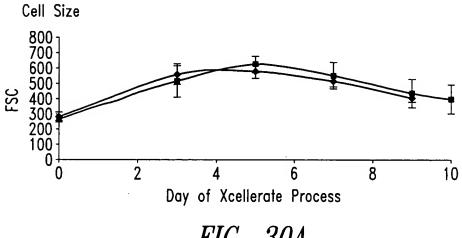
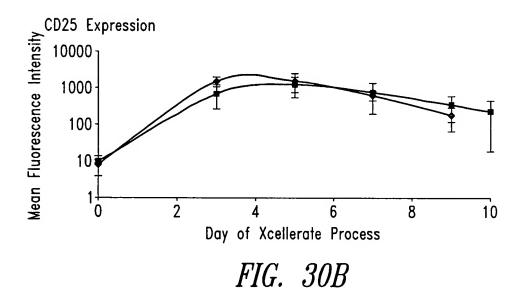


FIG. 30A



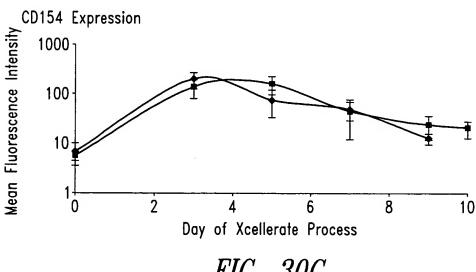


FIG. 30C

Inventor(s): Ronald Berenson et al.

Express Mail No. EV336592935US

Interferon gamma (IFN- γ)

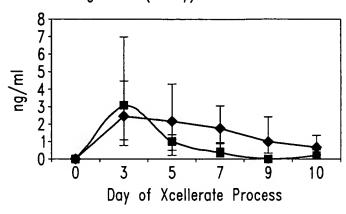


FIG. 31A

Interleukin 2 (IL-2)

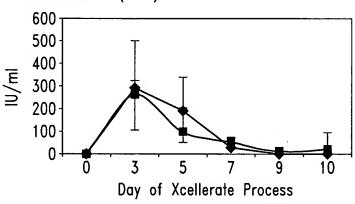


FIG. 31B

Tumor Necrosis Factor alpha $(TNF-\alpha)$

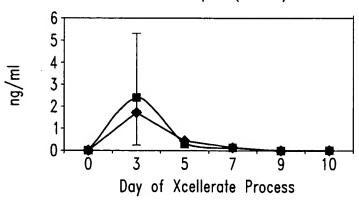
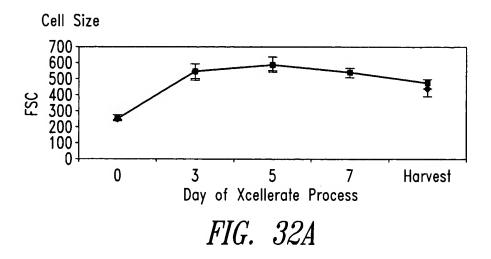
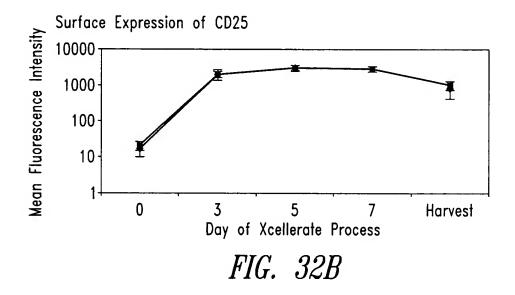


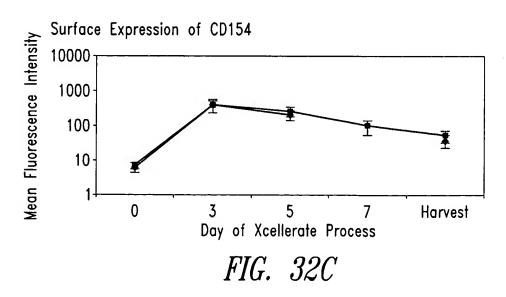
FIG. 31C

Inventor(s): Ronald Berenson et al.

Express Mail No. EV336592935US







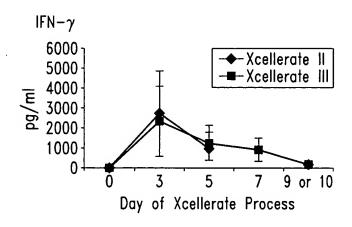


FIG. 33A

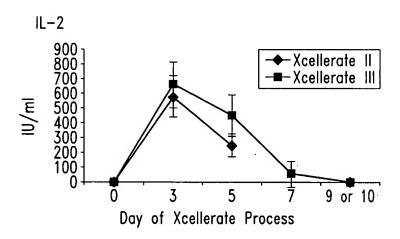


FIG. 33B

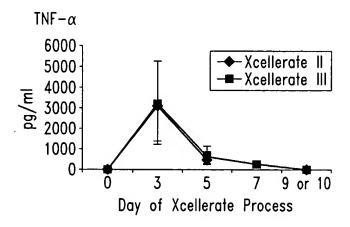
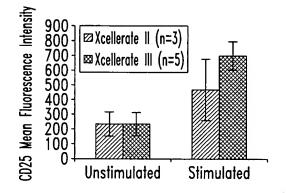


FIG. 33C

Up-regulation of CD25 on CD4⁺ and CD8⁺

Up-regulation of CD25 on CD4⁺ and Xcellerated T Cells



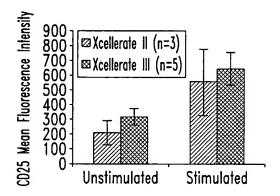
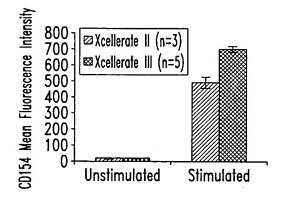


FIG. 34A

Up-regulation of CD154 on CD4⁺ and CD8⁺

Up-regulation of CD154 on CD4⁺ and Xcellerated T Cells



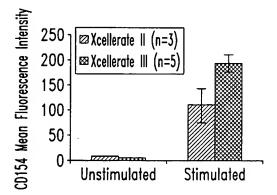


FIG. 34B

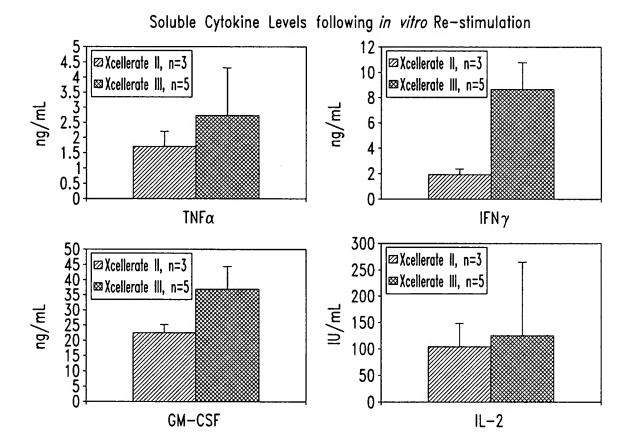


FIG.34C

Express Mail No. EV336592935US

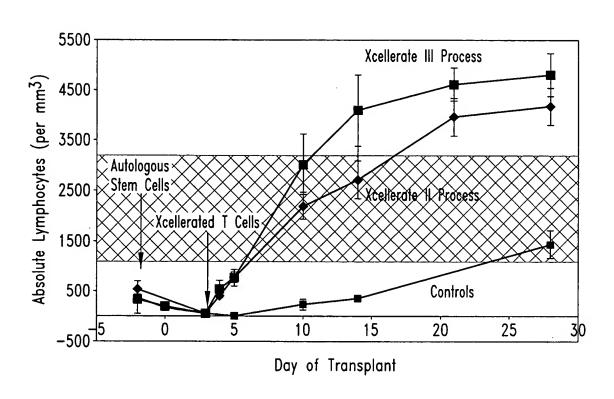


FIG. 35